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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/723,863	11/26/2003	Jason P. Chalccki	MS305499.01	9696	
	7590 09/19/2007 CORPORATION		EXAMINER		
ONE MICROS	OFT WAY		TRAN, QUOC A		
REDMOND, W	VA 98052		ART UNIT	PAPER NUMBER	
			2176		
			MAIL DATE	DELIVERY MODE	
			09/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<u>. 1</u>		Application No.	Applicant(s)
	•	10/723,863	CHALECKI ET AL.
÷	Office Action Summary	Examiner	Art Unit
		Tran A. Quoc	2176
	The MAILING DATE of this communication app	ears on the cover sheet	with the correspondence address
Period fo	ORTENED STATUTORY PERIOD FOR REPL'	Y IS SET TO EXPIRE 31	MONTH(S) OR THIRTY (30) DAYS.
WHIC - Exter after - If NO - Failu Any	CHEVER IS LONGER, FROM THE MAILING DOTHER IS LONGER, FROM THE MAILING DOTHER IS LONGER, FROM THE MAILING DOTHER IS IN (6) MONTHS from the mailing date of this communication. The period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MC cause the application to become.	IICATION. a reply be timely filed  ONTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).
Status			
1)	Responsive to communication(s) filed on 06/28	<u>8/2007</u> .	•
	• • • • • • • • • • • • • • • • • • • •	action is non-final.	
3)	Since this application is in condition for allowa		
	closed in accordance with the practice under E	<u>-x paπe Quayle, 1935 C.</u>	D. 11, 453 O.G. 213.
Dispositi	ion of Claims		
4) 🖂	Claim(s) 1-45 is/are pending in the application		
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	
,	Claim(s) is/are allowed.	2 1 1	
	Claim(s) <u>1-18, 20-23. 25-27, and 29-44</u> is/are		·
	Claim(s) <u>19, 21, 24, 26, 28, 30, 43, and 45</u> is/a Claim(s) are subject to restriction and/o		
٥)ا	Claim(c) are casjest to resirement are a		
Applicati	ion Papers		
	The specification is objected to by the Examine		<del>-</del>
10)⊠	The drawing(s) filed on <u>28 June 2007</u> is/are: a		
	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct		
11)	The oath or declaration is objected to by the Ex		
_	under 35 U.S.C. § 119		·
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C	. § 119(a)-(d) or (f).
a)	<ul><li>☐ All b) ☐ Some * c) ☐ None of:</li><li>1. ☐ Certified copies of the priority document</li></ul>	to have been received	
	<ol> <li>Certified copies of the priority document</li> <li>Certified copies of the priority document</li> </ol>		Application No.
·	3. Copies of the certified copies of the prior		
	application from the International Burea		
* (	See the attached detailed Office action for a list	of the certified copies no	ot received.
		<b>4</b>	
Attachmer	nt(s)		
1) 🔯 Notic	ce of References Cited (PTO-892)		v Summary (PTO-413) o(s)/Mail Date
3) 🔯 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 06/28/07; 08/13/2007; 9/14/07.		f Informal Patent Application

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## **DETAILED ACTION**

This is a Final rejection in response to amendment filed 06/28/2007.

Claims 1-45 are pending. Claims 1, 21, 26, 33, 37, and 41 are independent claims. Effective filing date is 11/26/2003, which claims CIP of 10/610, 504 filed 06-30-2003.

Object to claims 14, and 43 of the previous rejection mailed 02/08/2007 are withdrawn due to applicants' amendments.

### Claims Objection

Regarding claim(s) 21, 26, 30 and 43 the phrase "exceeds a threshold", and "the likelihood", and "a combination of forgoing" indefinite (Applicant's "In The Claims" pages 12, 14, 16 and 23), renders the claimed indefinite, because Applicant's invention specification merely discloses "script-based custom the validation rule, and real-time validation rule.... nodes governing by other nodes. Thus the real-time validation tool can validate data from a data-entry filed" (Applicant's invention specification para [0122]), and the validation tool item 136 can build validation rules from schema contain logic that governs a structure data file. This logic sets forth the bounds of what are the nodes..." (Applicant's invention specification para 0124). It is unclear what Applicant's intended the metes and bounds of the claims are, thereby rendering the scope of the claim(s) unascertainable (an open-ended ranges). Regarding claim 13 the phase "one or ore" is assumed to be a typo error of "one or more".

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## Allowable Subject Matter

Claims 19, 24, 28, and 45 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-18, 20-23, 25-27, and 29-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Altova</u> et al. "www. XML Spy.com spy 4 you" Published 05/24/2002 (hereinafter "Altova"), in view of <u>XForm 1.0</u> by W3C Published 07/16/2001 (hereinafter "XForm 1.0").

Regarding independent claims 1, Altova teaches:

A method comprising: receiving an instruction to open an eXtensible Markup Language (XML) document;

(See Altova at Page 11, discloses instruction to open an XML document.

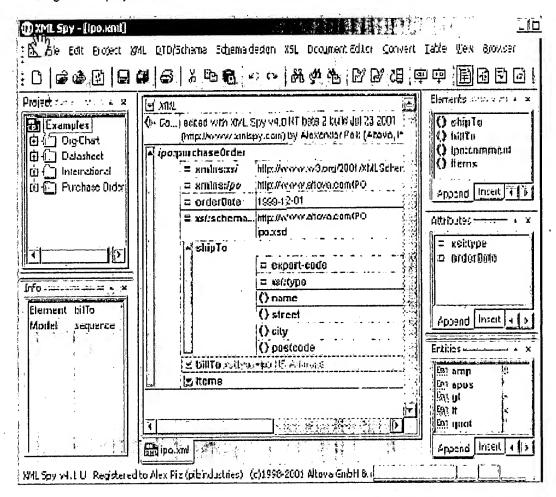
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opening the XML document with the solution, wherein: the solution includes an extensible stylesheet language (XSLT) presentation application and a XML schema; the XML document can be inferred from the XML schema;

executing the XSLT presentation application to render a Hypertext Markup Language (HTML).

(See Altova at Page 10, discloses XML Spy user interface.

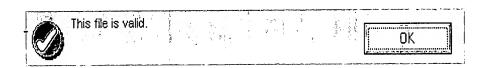
Clicking the "Display as Table" icon, activates the Database/Table view.



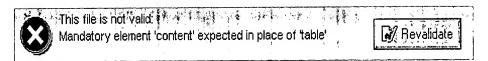
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Also, see Altova Page 12, discloses the XML Spy Document Framework and XML Spy IDE. XML Spy Document Framework consists of XSLT Designer and XML Spy Document Editor. Help on each member of the product family is available using the Help menu option.

Also, see XML Spy page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification, such as DTD, DCD, XDR, XML-Data, BizTalk, and the new W3C XML Schema Definition Language (XSD),



If an error is encountered during the validation, the source of the problem is highlighted and a corresponding error message is shown:



receiving, through the data-entry fields, data input by a user; validating the data input by the user; if the act of validating determines that the data input by the user is invalid, outputting indicia informing the user that the data input is invalid.

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(See Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.

Also, see Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification.)

and portions of the XML document are logically coupled with fragments of the XML schema;

(See Altova page 235, discloses XML Spy allows you to import hierarchical database data using the ADO data shaping function, this allows you to re-import specific parts of external databases.

Also, see Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification.)

executing the XSLT presentation application to render a Hypertext

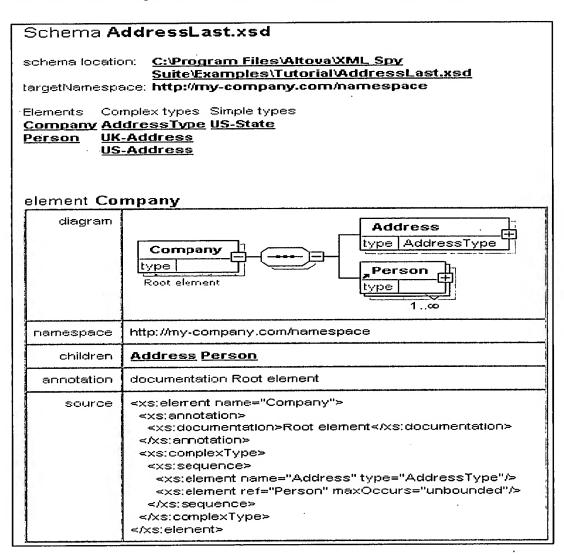
Markup Language (HTML) electronic form containing data-entry

fields associated with the coupled portions;

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(See Altova page 44, depicts in the diagram below, the first page of the schema documentation in HTML form. If components from other schemas have been included, then those schemas are also documented.

Also see Altova Page 69, discloses the process of transforming XML to HTML.)



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</model>.

### In addition, Altova does not teach, but XForm 1.0 teaches:

searching the XML document to locate a processing instruction (PI) containing a href attribute that points to a URL; discovering a solution using the URL in the processing instruction (PI).

(See XForm 1.0 Section 9.2 the <xform> Element, and 9.2.1 the <model> Element, discloses the namespace prefixes "xform:" and "xsd:" are used to denote the XForms and XML Schema namespaces respectively. This is by convention only; any namespace prefix may be used in practice. For example:

<foo href="http://www.example.com/XForms"/>

Also see XForm 1.0 Section 9.2 the <xform> Element, and 9.2.1 the <model> Element, discloses

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It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Altova XML Spy validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification of the schema documentation in HTML form, to include the searching the XML document feature to locate a processing instruction (PI) containing a href attribute that points to a URL; discovering a solution using the URL in the processing instruction (PI) of XForm 1.0 to improve the validating process of Altova XML Spy for the predictable result of better Web forms with richer interactions, for online interaction between a XForms Processor and a remote entity as taught by XForm

# Regarding independent claims 21,

1.0 at section 1.1 the Background.)

the rejection of claim 1 is fully incorporated.

In addition, Altova teaches:

examining the name of the PI to assess the likelihood that the PI includes a solution identifier for the solution; and when the likelihood exceeds a threshold, discovering a solution using the name in the PI;

(See Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.

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Also, see Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification. It is noted the claimed **the likelihood** is the value return true or false as taught by Altova XML Spy.)

Regarding independent claims 26, the rejection of claims 1 and 21 are fully incorporated, and are similarly rejected under the same rationale.

Regarding independent claims 33, 37, the rejection of claim 1 is fully incorporated, and is similarly rejected under the same rationale.

# Regarding independent claims 41,

is directed a computer-readable medium to perform the method of claim 1 which cites above, and is similarly rejected under the same rationale.

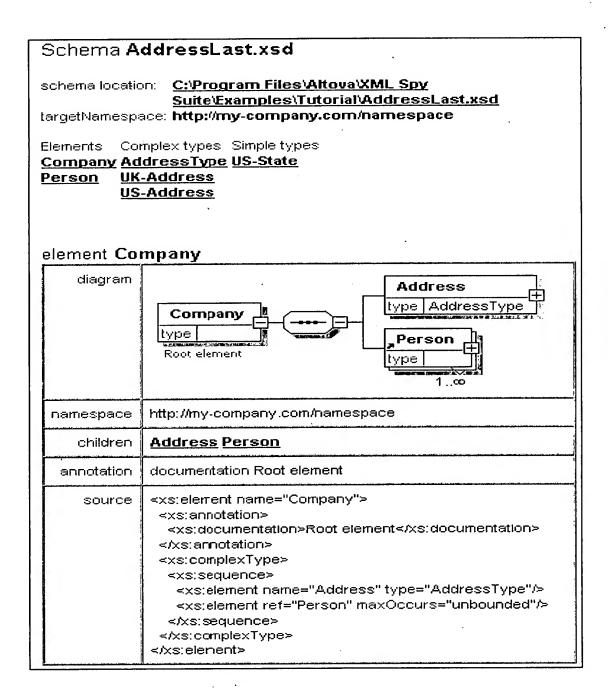
# Claims 2, 22, 29, 34, 38 and 42,

wherein one or more of the receiving, the searching, the examining, the discovering, the opening, and the executing of the XSLT presentation application are performed by the execution of an HTML electronic forms application that is different from the application used to create the HTML electronic form.

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(See Altova page 44, depicts in the diagram below, the first page of the schema documentation in HTML form. If components from other schemas have been included, then those schemas are also documented.

Also see Altova Page 69, discloses the process of transforming XML to HTML.)



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Also, see Altova Page 12, discloses the XML Spy Document Framework and XML Spy IDE. XML Spy Document Framework consists of XSLT Designer and XML Spy Document Editor. Help on each member of the product family is available using the Help menu option.

### Claim 3, Altova teaches:

wherein: the executing the XSLT presentation application comprises applying an XSLT stylesheet to the XML document to create the HTML electronic form; and the HTML electronic form includes a plurality of HTML elements corresponding to the data-entry fields.

(See XML Spy pages 68-69, teaching XSL Transformation XSL | Assign XSL, assigns an XSL file to an XML document, transforms the XML document(s) into the files specified by the XSL Transformation document, in this case into an HTML form.

See also XML Spy Page 71, teaching XML Spy product family includes XSLT Designer, which automates the generation of XSLT stylesheets for XML to HTML transformation.)

#### Claim 4,

In addition, Altova does not teach, but XForm 1.0 teaches:

the searching the XML document further comprises finding the first PI in the XML document; and the first PI in the XML document includes the URL.

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(See XForm 1.0 Section 9.2 the <xform> Element, and 9.2.1 the <model> Element, discloses the namespace prefixes "xform:" and "xsd:" are used to denote the XForms and XML Schema namespaces respectively. This is by convention only; any namespace prefix may be used in practice. For example:

<foo href="http://www.example.com/XForms"/>

Also see XForm 1.0 Section 9.2 the <xform> Element, and 9.2.1 the <model> Element, discloses

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Altova XML Spy's validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the

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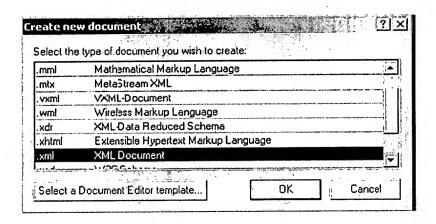
corresponding specification of the schema documentation in HTML form, to include the searching the XML document feature to locate a processing instruction (PI) containing a href attribute that points to a URL; discovering a solution using the URL in the processing instruction (PI) of XForm 1.0 to improve the validating process of Altova XML Spy for the predictable result of better Web forms with richer interactions, for online interaction between a XForms Processor and a remote entity as taught by XForm 1.0 at section 1.1 the Background.

### Claim 5, Altova teaches:

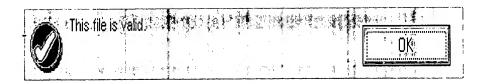
wherein the solution further comprises a manifest of all files that can be used for: representing the XML document in the HTML electronic form; allowing the user to input data into the data-entry fields; and the act of validating the data that the user inputs into the data-entry fields.

(See Altova page 446, teaching Opening a document template \*.sps, where XML Spy Document Editor enables you to edit XML documents based on templates created in XSLT Designer! You cannot create a new template using Document Editor; this must be done in XSLT Designer. Using the broadest reasonable interpretation, the Examiner reads the claimed a manifest of all files as equivalent to \*.sps as shows in Fig below:

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Also, see Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification, such as DTD, DCD, XDR, XML-Data, BizTalk, and the new W3C XML Schema Definition Language (XSD),



If an error is encountered during the validation, the source of the problem is highlighted and a corresponding error message is shown:



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Claim 6, XML Spy teaches:

wherein the coupled portions contain information setting forth all possible XML documents for the coupled portions.

(See XML Spy page 446, teaching Opening a document template \*.sps, where XML Spy Document Editor enables you to edit XML documents based on templates created in XSLT Designer! You cannot create a new template using Document Editor; this must be done in XSLT Designer. Using the broadest reasonable interpretation, the Examiner reads the claimed all possible XML document as equivalent to \*.sps as taught by Altova XML Spy.)

Regarding claims 7, 23, 27, 35, 39 and 44, Altova teaches:

the data-entry fields of the HTML electronic form map to a corresponding plurality of nodes of the XML document; and the data input is input for storage in a corresponding said node in the XML document and further comprising outputting data in XML for viewing by the user in the HTML electronic form through the data-entry fields via the mapping of the data-entry fields from corresponding said nodes of the XML document.

(See Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.

Also, see Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition

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(DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification.

See also, Altova page 235, discloses XML Spy allows you to import hierarchical database data using the ADO data shaping function, this allows you to re-import specific parts of external databases.

See also, Altova page 44, depicts in the diagram below, the first page of the schema documentation in HTML form. If components from other schemas have been included, then those schemas are also documented.

Also see Altova Page 69, discloses the process of transforming XML to HTML.)

### Claim 8, Altova teaches:

the XML schema includes a logic application and the act of validating executes the logic application.

(See XML Spy page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification, such as DTD, DCD, XDR, XML-Data, BizTalk, and the new W3C XML Schema Definition Language (XSD),)

#### Claim 9, Altova teaches:

the act of validating is performed on the data input from the user into each said data-entry field with one or more of a plurality of validation rules

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for; the logic application comprises a plurality of the validation rules for: a corresponding plurality of the nodes in the XML document; and a corresponding plurality of the data-entry fields; the act of validating uses each said validation rule to: determine if the data received by input from the user into a corresponding said data-entry field is valid or invalid; and require the user to correct any data input into the corresponding said data-entry field that the validation determines to be invalid.

(See Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification, such as DTD, DCD, XDR, XML-Data, BizTalk, and the new W3C XML Schema Definition Language (XSD),

See also, Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.

Also, see XML Spy page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification.

See also, Altova page 235, discloses XML Spy allows you to import hierarchical database data using the ADO data shaping function, this allows you to re-import specific parts of external databases.

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See also, Altova page 44, depicts in the diagram below, the first page of the schema documentation in HTML form. If components from other schemas have been included, then those schemas are also documented.

Also see Altova Page 69, discloses the process of transforming XML to HTML.)

#### Claim 10, Altova teaches:

validation rule has an identity that is selected from the group consisting of: the identity is based on a part of a schema governing a corresponding said node; the identity is written in script and associated with a corresponding said node; and the identity is written in a declarative syntax and associated with a corresponding said node.

(See Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.

See also Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification, such as DTD, DCD, XDR, XML-Data, BizTalk, and the new W3C XML Schema Definition Language (XSD),)

## Claim 11, Altova teaches:

each said validation rule includes an alert area display and the indicia comprises the alert area display; and the act of validating further

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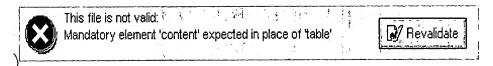
comprises using one said validation rule to determine that the data received by input from the user into a corresponding said data-entry field is invalid; and the act of outputting indicia outputs the corresponding alert area display so as to be associated with the corresponding said data-entry field.

(See Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.

See also, Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification, such as DTD, DCD, XDR, XML-Data, BizTalk, and the new W3C XML Schema Definition Language (XSD),



If an error is encountered during the validation, the source of the problem is highlighted and a corresponding error message is shown:



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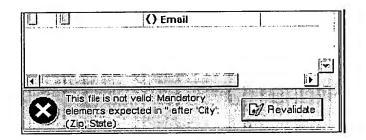
# Claim 12, Altova teaches:

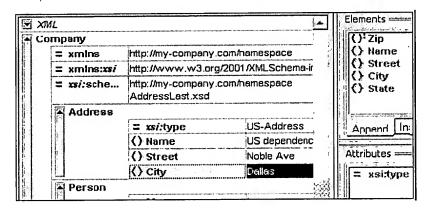
wherein when the alert area display is output, the output includes one or more characteristics selected from the group consisting of: graphics surrounding the corresponding said data-entry field; the alert area display surrounds the corresponding said data-entry field; the alert area display includes graphics containing a red, dashed-lined box; the alert area display includes graphics highlighting the data in the corresponding said data-entry field; the alert area display surrounds the corresponding said data-entry field and includes the graphics containing a squiggly line beneath the data in the corresponding said data-entry field; the alert area display includes text containing information about the invalid data in the corresponding said data-entry field; the alert area display includes text containing corresponding said data-entry field; and the alert area display includes a pop-up window.

(See Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.

Also see Altova Page 55-56, discloses error massage of validating against input data field graphic windows as shows bellows:

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Using the broadest reasonable interpretation, the Examiner equates the claimed as equivalent to forms dialog boxes enable scripts and Altova XML Spy to interact with the user, where the value return true or false and its GUI as taught by Altova XML Spy.)

#### Claim 13, Altova teaches:

wherein each said node has one or ore of the validation rules associated therewith.

(See Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification, such as DTD, DCD, XDR, XML-Data, BizTalk, and the new W3C XML Schema Definition Language (XSD),)

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## Claim 14, Altova teaches:

wherein one said validation rule includes a requirement that is selected from the group consisting of: the data received by input from the user into a corresponding said data-entry field is to be numerical;

the data received by input from the user into a corresponding said data-entry field is to be textual; and

the data received by input from the user into a corresponding said data-entry field that references another said node in the data file.

(See Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.

See also, Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification, such as DTD, DCD, XDR, XML-Data, BizTalk, and the new W3C XML Schema Definition Language (XSD),)

### Claim 15, Altova teaches:

wherein the plurality of the validation rules re associated by mapping to the corresponding plurality of the nodes in the XML document. (See Altova page 180, discloses the validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the

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corresponding specification, such as DTD, DCD, XDR, XML-Data, BizTalk, and the new W3C XML Schema Definition Language (XSD),)

### Claim 16, Altova teaches:

validation rule is associated by mapping to a corresponding said data-entry field by use of an entity selected from the group consisting of an XPath expression, a declarative syntax, and an entity that is script-based.

(See Altova Page 176, teaching Evaluate Xpath, XML Spy includes an XPath Visualizer that allows you to define/check XPath expressions in your XML documents and display the results immediately.

See also, ALtova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.)

### Claim 17, Altova teaches:

wherein the script-based validation rule maps to a corresponding said node with an entity selected from the group consisting of:

an XPath expression;

an event handler;

an event handier that determines when a real-time validation tool uses the script-based validation rule;

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an event handler that determines when a real-time validation tool uses the script-based validation rule before data received for the node is held by the data file; and

an event handler that determines when a real-time validation tool uses the script-based validation rule after data received for the node is held by the data file.

(See Altova Page 176, teaching Evaluate Xpath, XML Spy includes an XPath Visualizer that allows you to define/check XPath expressions in your XML documents and display the results immediately.

See also, Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.)

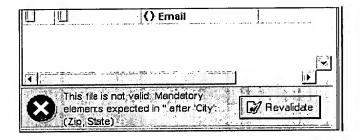
#### Claim 18, Altova teaches:

wherein each said validation rule includes an alert area display; and how the alert area display is to appear when output.

(See Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to interact with the user, where the value return true or false.

Also see Altova Page 55-56, discloses error massage of validating against input data field graphic windows as shows bellows:

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Ţ:	≡ anlma		Nam	
	= xmlns:xsi	http://www.w3.org	7/2001/AMILSCHEMA-II : [ [ [ ] ] ]	() Stree
	= xsi:sche	http://my-company AddressLast.xsd	commemerace	City State
	Address			
		= xsi:type	US-Address Apr	nend
1-14416		() Name	US dependenc	
		() Street	Noble Ave Attrib	outes
	ř.	() City	Dallas -	xsi:t

### Claims 20, 25, 32, 36, 40,

the rejection of claims 1, 21, 26, 33, and 37 are fully incorporated.

In addition, a computer readable medium, when executed by a computer embodied therein for performance the method of claims 1, 21, 26, 33, and 37 as cite above.

(See Altova Page 6 bottom, teaching XML documents are per definition Unicode-based, but may be stored on disk or transmitted over the network in various different "encodings", such as ISO-8859-1 or UTF-8.)

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### Claim 30, Altova teaches:

the assessment of the likelihood exceeds the threshold,
(See Altova page 323, discloses forms dialog boxes enable scripts and XML Spy to
interact with the user, where the value return true or false.

Also see Altova Page 55-56, discloses error massage of validating against input data field. In the broadest reasonable interpretation, Examiner interprets the claimed **the likelihood exceeds the threshold** as equivalent to the value return true or false as taught by Altova XML Spy.

# In addition, Altova does not teach, but XForm 1.0 teaches:

when the PI is the first PI in the XML document that contains a URL; the discovering a solution comprises using the first URL to discover the solution.

(See XForm 1.0 Section 9.2 the <xform> Element, and 9.2.1 the <model> Element, discloses the namespace prefixes "xform:" and "xsd:" are used to denote the XForms and XML Schema namespaces respectively. This is by convention only; any namespace prefix may be used in practice. For example:

<foo href="http://www.example.com/XForms"/>

Also see XForm 1.0 Section 9.2 the <xform> Element, and 9.2.1 the <model> Element, discloses

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```
<instance href="URL-to-retrieve-defaults" />
```

</xform>

and also,

<model

id = xsd:ID

href = xsd:uriReference

>

<!-- Content: (xsd:schema | simple) -->

</model>.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Altova XML Spy's validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification of the schema documentation in HTML form, to include the discovering solution using the URL in the processing instruction (PI) of XForm 1.0 to improve the validating process of Altova XML Spy for the predictable result of better Web forms with richer interactions, for online interaction between a XForms Processor and a remote entity as taught by XForm 1.0 at section 1.1 the Background.)

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Claim 31,

The rejection of claim 30 is fully incorporated; In addition, Altova teaches:

a URL is a URL having a path with a suffix that is selected from the group consisting of .xsf or .xsn.

(See Altova Page 176, teaching Evaluate Xpath, XML Spy includes an XPath Visualizer that allows you to define/check XPath expressions in your XML documents and display the results immediately.

See also Altova page 446, teaching Opening a document template \*.sps, where XML Spy Document Editor enables you to edit XML documents based on templates created in XSLT Designer. Using the broadest reasonable interpretation, the Examiner reads the claimed .xsf or .xsn as equivalent to \*.sps as taught by Altova XML Spy. Since the Applicant Specification discloses, "a URL or URN that will most likely point to a path having a suffix that is either '\*.xsf' (e.g., a manifest or listing other files) or '\*.xsn' (a file that contains multiple files compressed into one file and that are extractable with the extract '\*.exe' utility) See Applicant disclosure Para 102).

Claim 43, Altova does not teach, but XForm 1.0 teaches:

wherein the discovering a solution using the entity in the Pl comprises an act selected from the group consisting of:

(i) discovering the solution using the URL in the PI;

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</model>.

(ii) discovering the solution using a name associated with the href attribute; discovering the solution using a name in the PI that is associated with the href attribute; and

(iv) a combination of the foregoing.

(See XForm 1.0 Section 9.2 the <xform> Element, and 9.2.1 the <model> Element, discloses the namespace prefixes "xform:" and "xsd:" are used to denote the XForms and XML Schema namespaces respectively. This is by convention only; any namespace prefix may be used in practice. For example:

<foo href="http://www.example.com/XForms"/>

Also see XForm 1.0 Section 9.2 the <xform> Element, and 9.2.1 the <model> Element, discloses

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It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Altova XML Spy's validating process, where validates an XML document against the rules set forth in its Schema or Document Type Definition (DTD) or it can validate any XML Schema or DTD against the rules set forth in the corresponding specification of the schema documentation in HTML form, to include the discovering a solution using the entity in the PI comprises an act selected from the group consisting of: (i) discovering the solution using the URL in the PI; (ii) discovering the solution using a name associated with the href attribute; discovering the solution using a name in the PI that is associated with the href attribute; of XForm 1.0 to improve the validating process of Altova XML Spy for the predictable result of better Web forms with richer interactions, for online interaction between a XForms Processor and a remote entity as taught by XForm 1.0 at section 1.1 the Background.)

It is noted that any citations to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. See, MPEP 2123.

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### Response to Argument

Applicant's Remarks filed on 6/28/2007 with respect to claim 1-45 have been considered but are most in view of the new ground(s) of rejection. This office action is a Final Rejection, because Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action (see above rejection for details).

It is noted, as requested by the Applicant's attorney (see the Remarks Page 26).

The Examiner has conducted a telephone interview with Applicant's attorney on 09/13/2007.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is 571-272-8664. The examiner can normally be reached on Monday through Friday from 9 AM to 5 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on 571-272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Quốc A, Tran Patent Examiner Art Unit 2176 09/16/2007

/Doug Hutton/
Supervisory Primary Examiner
Technology Center 2100